Chapter 7

Useful Stuff

*Here's some useful stuff that makes the **CDQPrima** more user-friendly than any other audio codec*

7 Useful Features

The ***CDQPrima*** has some features that, although not necessary for day-to-day operation, may be of interest to even the casual user. Many of these features are not available from any other codec manufacturer.

7.1 User Profiles And Factory Defaults

[Common] Encoder Decoder Maint ...

Anc Data [**User Profile]** RPRmt Ctl ... Hot Key [**General]** G.722/H.221 ...

Version **[Set dflts]** Serial No (these selections under 'General')

MENU NAVIGATION	COMMAND	WINDOWS RC	DESCRIPTION
<System Setup><Defaults> <Factorys>	CDF	Setup, Default System	Reset default parameters
<System Setup><User Profile> <*load/save/reset*>	CPU	DC	Save, load or reset user profile

!note:

It may sometimes be necessary to re-boot the ***CDQPrima***. Re-booting is as simple as turning the ***CDQPrima*** off and then on again. The ***CDQPrima*** remembers the last configuration loaded, and will re-boot using the last known configuration. **Please remember that if an invalid configuration was loaded before the re-boot, then the same invalid configuration will be loaded after the re-boot.**

7.1.1 Resetting Factory Defaults

If re-booting does not restore the ***CDQPrima*** to working order, it may be necessary to return your ***CDQPrima*** to its factory default configuration. Although not likely, it is possible to configure your ***CDQPrima*** in such a way that it may not function properly. For example, it is possible to configure ancillary data to ignore remote control. It is usually easier to start over by reloading factory defaults than to figure out what is wrong with the configuration.

Factory defaults can be reloaded from the keypad or by issuing a '1' reset. This will restore all factory default settings and will restore a default configuration that is known to work. The complete list of factory default settings can be found in the Appendix of the ***CDQPrima*** Technical Reference Manual, an abbreviated list is shown below. **After a '1' reset, your *CDQPrima* will be configured in loopback, 256 kb/s, and will have no DIF modules installed.** Information that is required by the internal terminal adapter is *not* lost.

Parameter	Value
Loopback bitrate (CBR)	256kb/s
Bitrate (EBR, DBR)	256 kb/s
Algorithm (EAL, DAL)	MPEGL2
Mode (EAM)	joint stereo
Sampling rate (ESR)	48
Encoder line format (ELI)	L1
Decoder set to independent (DIN)	NO
Loopback (CSL)	LB
User password (MUP)	A
Super-user password (MSU)	A
Sine detector	OFF

Table 7-1 Summary of factory default settings

If the keypad is still responding, use the sequence

<Common><General><Set dflts><Factory>

to reset to the factory default condition. If the keypad is not responding, perform a '1' reset. Turn the ***CDQPrima*** OFF, then turn it ON while holding the '1' button. Continue to hold the '1' button until the display flashes "PARAMETER RESET REQUEST" and then release **This message will only appear for about a second so you must keep your eyes on the display**. The ***CDQPrima*** will continue the boot cycle, but will load all factory default settings. During the boot

cycle the display must flash “RESETTING DEFAULT PARAMETERS”. If it does not say this during the boot cycle, use the keypad sequence

<Common><General><Set dflts><Factory>

to reset defaults after the ***CDQPrima*** has completed its boot cycle..

!note:

You will note that the **factory default settings do not include any digital interface modules**. You must now re-enter what type of DIF modules are installed. Note, that if you are using an internal terminal adapter you must tell the ***CDQPrima*** that it is installed before you can dial, but the TA parameters (SPID, ID, etc.) do not need to be re-entered.

7.1.2 User Profile

It is not always desirable to reset all factory defaults as described above. For example, you may always want a certain configuration to be loaded when resetting defaults. As another example, you may always want a terminal adapter to be recognized after a reset.

The User Profile is just such a mechanism for creating a set of user defaults that can be reloaded instead of the factory defaults. Creating a User Profile is easy. Just configure the ***CDQPrima*** as desired and save the configuration. The User Profile overwrites and saves the following factory default parameters:

When creating a User Profile, be sure to have a valid configuration loaded before saving.

System loopback state
Encoder and decoder algorithm
Encoder and decoder line format
Encoder and decoder bit rate
Encoder sampling rate
Encoder algorithm mode
Installed DIFs
Buzzer state
Display contrast

!note:

Please note that it is possible to save an invalid configuration or to blank the display using user profiles. We recommend saving a User Profile only after a factory default reset. Then configuring any DIFs used, set up and test the configuration you want to save, and only after you are sure it works, re-save the User Profile. Saving a user profile is easy. Use the **CPU** command or use the keypad sequence

<Common><User Profile><Save>.

In an operation similar to resetting the factory defaults, the User Profile can be used to reset to the user defaults. Instead of holding the '1' key while applying power, hold the 'U' (8) button down while turning the ***CDQPrima*** on. Release the button only after the display flashes "RESET PARAMETER REQUEST". Similarly, you can issue the **CPU** command or use the keypad sequence

<Common><User Profile><Load>.

Resetting the User Profile loads all factory defaults into the user profile list.

7.2 Function Key Programming (Model 230 or Windows Remote Control only)

[Common] Encoder Decoder Maint ...

... Virt Act **[Hot Key]** General G.722/H.221 ...

MENU NAVIGATION	COMMAND	WINDOWS RC	DESCRIPTION
<Common><Hot Key>	CHK	Extra, Hot Key	Program function key

The eight function keys on the front panel of the ***CDQPrima*** 230 can be programmed with any single command supported by the ***CDQPrima***. For example, one-button dialing or one-button configuration is possible.

Factory default setup does not define any of the function keys and pressing an undefined key will do nothing. Any key can be programmed with almost any of the remote control commands available. Using the far-end remote control techniques discussed in the ***CDQPrima*** Technical Reference Manual, you can even send commands to the far-end codec.

As an example of programming a function key, let's set the F1 key to perform a one-button configuration and connect (Speed Dial). Let's say that you want to invoke Speed Dial 127 (a Speed Dial entry you previously created), but since you use this entry so often, you want to do it with only one button press.

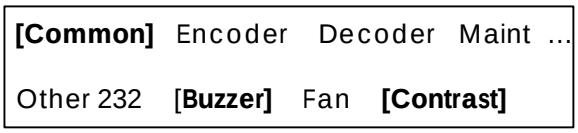
Using the keypad sequence

<Common><Hot Key><F1>.

Since the key has not been previously programmed, you will be prompted to enter a single command. Using the alphanumeric keypad, enter the command **CSD 127** (remember that a space is entered with 4 presses of the "QZ1" button). When you press the ENTER key, the command is saved. The next time you press the F1 button, the ***CDQPrima*** will Speed Dial entry 127.

Although only the ***CDQPrima*** 230 has physical function buttons, you can program and use up to eight, single-click 'hot keys' that work with any model when using the Windows Remote Control program.

7.3 Keypad Beeper And Display Contrast Adjustment



MENU NAVIGATION	COMMAND	WINDOWS RC	DESCRIPTION
<System Setup><Buzzer> <Audible Alarm>	CBZ	N/A	Buzzer state
<System Setup><Buzzer> <Pb Click>	MBX	N/A	Keypad beep state
<System Setup><Contrast>	CCV	N/A	Adjust LCD display contrast

The keypad beeper provides positive audible feedback whenever a keypad button is pressed. In some instances, however, it may be necessary to silence this feature. The **MBX** command or the keypad sequence

<Common><Buzzer><PB Click>

can be used to turn off the beeper.

It is also possible to use the beeper to produce an audible alarm if any (user defined) trouble condition exists. Using the virtual action or event-to-action feature of Prima Logic Language, you can program an event to sound the beeper on either the local or far-end ***Prima LT***. The **CBZ** command or the keypad sequence

<Common><Buzzer><Audible Alarm>

is used to toggle the state of the beeper.

For ease of viewing at any angle, the contrast of the LCD display can be adjusted over a wide range using the **CCV** command or the keypad sequence

<Common><Contrast>.